



PATENT  
Docket No. 15436.170.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Deng et al.



Serial No.: 10/695,057

Art Unit  
2828

Filed: Oct. 28, 2003

Confirmation No.: 5980

For: *WIDE TEMPERATURE RANGE VERTICAL CAVITY  
SURFACE EMITTING LASER*

**Certificate  
JUN 30 2010  
of Correction**

Examiner: Minsun Oh Harvey

Patent No.: 7,356,057 B2

Issue Date: Apr. 8, 2008

**REQUEST FOR A CERTIFICATE OF CORRECTION  
UNDER 37 C.F.R. § 1.323**

Attention: Certificate of Corrections Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Commissioner:

In accordance with the provisions of 37 C.F.R. § 1.323, which implements 35 U.S.C. § 255, the Director is respectfully requested to issue a Certificate of Correction to correct mistakes in the above-identified patent. The enclosed Patent Office Form PTO/SB/44 reflects the desired corrections.

Payment in the amount of \$100, as set forth in 37 C.F.R. § 1.20(a) is submitted herewith to cover the costs for issuance of the requested Certificate of Correction. The Commissioner is hereby authorized to charge payment of any of the following fees that may be applicable to this communication, or credit any overpayment, to Deposit Account No. 23-3178: (1) any filing fees

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required under 37 CFR § 1.16; (2) any patent application and reexamination processing fees under 37 CFR § 1.17; and/or (3) any post issuance fees under 37 CFR § 1.20. In addition, if any additional extension of time is required, which has not otherwise been requested, please consider this a petition therefore and charge any additional fees that may be required to Deposit Account No. 23-3178.

Dated this 23<sup>rd</sup> day of June, 2010.

Respectfully submitted,



JOHN T. GADD  
Attorney for Applicant  
Registration No.: 52,928  
Customer No.: 22913

WORKMAN NYDEGGER  
1000 Eagle Gate Tower  
60 East South Temple  
Salt Lake City, UT 84111  
Phone: 801-533-9800  
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#### CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Attention: Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 25<sup>th</sup> day of June, 2010.

Respectfully submitted,



Transmitted: REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323  
PTO Form PTO/SB/44 and check No. 169017 in the amount of \$100

JTG:tgp  
2900677\_1



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Dear Commissioner:

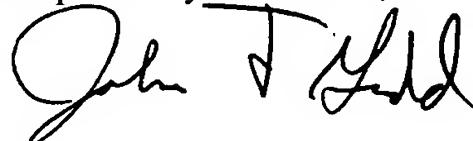
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Page 1 of 2

PATENT NO. : 7,356,057 B2

APPLICATION NO. : 10/695,057

ISSUE DATE : Apr. 8, 2008

INVENTOR(S) : Deng et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**Title Page**

Item 56, References Cited, Other Publications, Publication 4, change “R.A. Morgank” to --  
R.A. Morgan--

Item 56, References Cited, Other Publications, Publication 5, change “Cryogenic Operation of  
AlGaAs-GaAs Vertical-Cavity Surface-Emitting Lasers at Temperatures from 200K to 6 K,” to  
--“Cryogenic Operation of AlGaAs-GaAs Vertical-Cavity Surface-Emitting Lasers at  
Temperatures from 200K to 6 K,”--

**Column 4**

Line 54, after “quantum wells”, add [112]

Line 62, change “quantum well” to --quantum wells 112--

**Column 5**

Line 14, after “aperture”, add [104]

Line 16, after “layers”, add [108]

Line 22, after “diagram”, add [200]

Line 28, after “active region”, add [204]

Line 33, after “wells”, add [220]

**Column 6**

Line 38, change “330 and” to –330, and--

Line 40, change “VCSEL” to --VCSEL,--

MAILING ADDRESS OF SENDER (Please do not use customer number)

**JOHN T. GADD, WORKMAN NYDEGGER**  
**1000 Eagle Gate Tower**  
**60 East South Temple**  
**Salt Lake City, Utah 84111**

This collection of information is required by 37 CFT 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

UNITED STATES PATENT AND TRADEMARK OFFICE  
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ISSUE DATE : Apr. 8, 2008

INVENTOR(S) : Deng et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**Column 7**

Line 45, after "sensor", add [515]  
Line 46, after "VCSEL", add [510]  
Line 47, after "sensor", add [515]  
Line 47, after "module" add [520]  
Line 48, after "sensor", add [515]  
Line 49, after "VCSEL", add [510]

Line 50, change "VCSEL. The sensor" to --VCSEL 510. The sensor 515--

Line 61, after "module" add [520]

**Column 8**

Line 1, change "beater" to --heater--  
Line 2, after "VCSEL", add [510]  
Line 11, after "heater", add [505]  
Line 14, after "heater", add [505]  
Line 20, after "heater", add [505]  
Line 42, after "module" add [500]

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